PATENT ABSTRACTS OF JAPAN

(11) Publication number: 2000043401 A

(43) Date of publication of application: 15 . 02 . 00

(51) Int. CI B41M 5/00

(21) Application number: 10214269 (71) Applicant: MITSUBISHI PAPER MILLS LTD
(22) Date of filing: 29 . 07 . 98 (72) Inventor: KANEKO SATOSHI ASHIDA TETSUYA

(54) INK JET RECORDING SHEET

(57) Abstract:

PROBLEM TO BE SOLVED: To increase the rate of ink absorption, make a drying property fast after printing, and improve the glossiness by having a layer containing the specific rate of a water soluble polymer and a layer containing a synthetic silica of a specific average particle diameter of primary particles by a vapor phase method from the part near the support body.

SOLUTION: This is based on a fundamental concept in which a vapor phase method silica of fine particles is disposed on a layer consisting of a water soluble polymer, and printed ink is permeated through a lower

layer promptly to subsequently be absorbed by swelling of a water soluble polymer. Also, a synthetic silica having an average particle diameter of 50 nm or lower of vapor phase method silica primary particles used is required to be 5 g/m2. In addition, the content weight of the water soluble polymer is required to be 2 g/m2 or more. Furthermore, the combination and balance of both layers are important in a layer containing a large quantity of a vapor phase silica and a layer containing a large quantity of a water soluble polymer. In this manner, the rate of ink absorption is accomplished, and a drying property and glossiness can be enhanced.

COPYRIGHT: (C)2000, JPO